1627

1600

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$\cancel{\text{10}}$
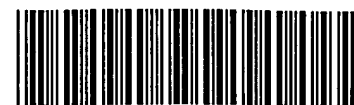
RAW SEQUENCE LISTING DATE: 07/19/2002
PATENT APPLICATION: US/09/674,962A TIME: 14:42:47

Input Set : A:\674962sq
Output Set: N:\CRF3\07192002\I674962A.raw

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```
   3 <110> APPLICANT: Hauer, Bernhard
   4        Schmid, Rolf D.
   5        Enzelberger, Markus
   6        Minning, Stephan
   8 <120> TITLE OF INVENTION: Novel Peptide Fragments for Purifying Proteins
  10 <130> FILE REFERENCE: 49041/Up
  12 <140> CURRENT APPLICATION NUMBER: 09/674,962A
C--> 14 <141> CURRENT FILING DATE: 2000-11-18
  16 <150> PRIOR APPLICATION NUMBER: PCT/EP99/03469
  18 <151> PRIOR FILING DATE: 1999-05-20
  20 <160> NUMBER OF SEQ ID NOS: 11
  22 <170> SOFTWARE: WordPerfect version 6.1
  25 <210> SEQ ID NO: 1
  26 <211> LENGTH: 10
  27 <212> TYPE: PRT
  28 <213> ORGANISM: Artificial Sequence
  30 <220> FEATURE:
  31 <222> LOCATION: 1..10
  32 <223> OTHER INFORMATION: sequence for purifying proteins
W--> 35 <221> NAME/KEY: unsure
  36 <222> LOCATION: 2
  37 <223> OTHER INFORMATION: Xaa is an amino acid selected from the group consisting of
  38        Ala, Val, Phe, Ser, Met, Trp, Tyr, Asn, Asp and Lys, particularly preferably
  39        Phe, Ser, Asn, Asp and Lys, very particularly preferably Asn.
W--> 41 <221> unsure
  42 <222> LOCATION: 4
  43 <223> OTHER INFORMATION: Xaa is an amino acid selected from the group consisting of
  44        Val, Ile, Phe, Pro, Trp, Tyr, Gln, Glu and Arg, particularly preferably Val,
  45        Ile, Phe, Pro, Gln, Glu and Arg,
  46 <223> OTHER INFORMATION: very particularly preferably Gln, Glu and Arg.
W--> 48 <221> NAME/KEY: unsure
W--> 49 <222> LOCATION: 5
W--> 50 <223> Xaa is an amino acid selected from the group consisting of
  51        Gly, Ile, Thr, Met, Trp, Tyr, Asn, Gln, Asp, Glu, Lys, Arg and His,
  52        particularly preferably Gly, Ile, Thr, Met, Trp, Tyr, Asn Asp, Glu, Arg and
  53        His,
  55 <223> OTHER INFORMATION: very particularly preferably Gly, Thr and Tyr.
W--> 57 <221> NAME/KEY: unsure
W--> 58 <222> LOCATION: 6
W--> 59 <223> Xaa is an amino acid selected from the group consisting of
  60        Val, Phe, Pro, Cys, Met, Trp, Asn, Glu, Arg and His, particularly preferably
  61        Val, Phe, Cys, Met, Trp, Asn, Arg and His, very particularly preferably Asn
  62        and Arg.
```

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PATENT APPLICATION: US/09/674,962A   TIME: 14:42:47

Input Set : A:\674962sq
Output Set: N:\CRF3\07192002\I674962A.raw

```
W--> 64 <221> NAME/KEY: unsure
W--> 65 <222> LOCATION: 8
W--> 66 <223> Xaa is an amino acid selected from the group consisting of
     67      Gly, Ser, Cys, Met, Trp, Asn, Glu, Lys and Arg, particularly preferably Gly,
     68      Ser, Cys, Met, Asn, Glu, Lys and Arg, very particularly preferably Gly and
     69      Lys.
W--> 71 <221> NAME/KEY: unsure
W--> 72 <222> LOCATION: 9
W--> 73 <223> Xaa is an amino acid selected from the group consisting of
     74      Gly, Ser, Cys, Met, Trp, Asn, Glu, Lys and Arg, particularly preferably Gly,
     75      Ser, Cys, Met, Asn, Glu, Lys and Arg, very particularly preferably Gly and
     76      Lys.
W--> 78 <400> 1
W--> 80 His Xaa His Xaa Xaa Xaa Cys Xaa Xaa Cys
     81 1               5                  10
     83 <210> SEQ ID NO: 2
     84 <211> LENGTH: 10
     85 <212> TYPE: PRT
     86 <213> ORGANISM: Artificial sequence
     88 <220> FEATURE:
     89 <223> OTHER INFORMATION: Sequence for purifying proteins
     91 <400> SEQUENCE: 2
     93 His Gln His Glu Gly Arg Cys Lys Glu Cys
     94 1               5                  10
     96 <210> SEQ ID NO: 3
     97 <211> LENGTH: 10
     98 <212> TYPE: PRT
     99 <213> ORGANISM: Artificial sequence
    101 <220> FEATURE:
    102 <223> OTHER INFORMATION: Sequence for purifying proteins
    104 <400> SEQUENCE: 3
    106 His Asn His Arg Tyr Gly Cys Gly Cys Cys
    107 1               5                  10
    109 <210> SEQ ID NO: 4
    110 <211> LENGTH: 10
    111 <212> TYPE: PRT
    112 <213> ORGANISM: Artificial sequence
    114 <220> FEATURE:
    115 <223> OTHER INFORMATION: Sequence for purifying proteins
    117 <400> SEQUENCE: 4
    119 His Arg His Gly Thr Asn Cys Leu Lys Cys
    120 1               5                  10
    122 <210> SEQ ID NO: 5
    123 <211> LENGTH: 10
    124 <212> TYPE: PRT
    125 <213> ORGANISM: Artificial sequence
    127 <220> FEATURE:
    128 <223> OTHER INFORMATION: Sequence for purifying proteins
    130 <400> SEQUENCE: 5
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RAW SEQUENCE LISTING   DATE: 07/19/2002
PATENT APPLICATION: US/09/674,962A   TIME: 14:42:47

Input Set : A:\674962sq
Output Set: N:\CRF3\07192002\I674962A.raw

```
132 His Ile His Gln Ser Asn Cys Gln Val Cys
133 1                 5                 10
136 <210> SEQ ID NO: 6
137 <211> LENGTH: 59
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial sequence
141 <220> FEATURE:
142 <221> NAME/KEY: unsure
143 <222> LOCATION: 1..59
144 <223> OTHER INFORMATION: primer
145 <223> OTHER INFORMATION: n is a, g, c, t or u
```
W--> 147 `<400> 6`
W--> 149 `gcaataccat ggggcatnnn catnnnnnnn nntgtnnnnn ntgtgtgagg aagggcgag        59`
```
151 <210> SEQ ID NO: 7
152 <211> LENGTH: 17
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: primer
159 <400> SEQUENCE: 7
161 cagttggaat tctagag                                        17
164 <210> SEQ ID NO: 8
165 <211> LENGTH: 47
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: primer
172 <400> SEQUENCE: 8
174 gcaataccat ggggcatcat catcatcatc atgtgaggaa gggcgag          47
177 <210> SEQ ID NO: 9
178 <211> LENGTH: 17
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: primer
185 <400> SEQUENCE: 9
187 cagttggaat tctagag                                        17
189 <210> SEQ ID NO: 10
190 <211> LENGTH: 44
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: primer
197 <400> SEQUENCE: 10
199 gcaataccat ggggcatatt cataatcttg attgtcctga ttgt          44
201 <210> SEQ ID NO: 11
202 <211> LENGTH: 10
203 <212> TYPE: PRT
204 <213> ORGANISM: Helicobacter pylori
```

RAW SEQUENCE LISTING   DATE: 07/19/2002
PATENT APPLICATION: **US/09/674,962A**   TIME: 14:42:47

Input Set : **A:\674962sq**
Output Set: **N:\CRF3\07192002\I674962A.raw**

206 <400> SEQUENCE: 11
208 His Ile His Asn Leu Asp Cys Pro Asp Cys
209   5   10

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 07/19/2002
PATENT APPLICATION: US/09/674,962A   TIME: 14:42:48

Input Set : **A:\674962sq**
Output Set: **N:\CRF3\07192002\I674962A.raw**

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,4,5,6,8,9
Seq#:6; N Pos. 18,19,20,24,25,26,27,28,29,30,31,32,36,37,38,39,40,41

VERIFICATION SUMMARY   DATE: 07/19/2002
PATENT APPLICATION: US/09/674,962A   TIME: 14:42:48

Input Set : A:\674962sq
Output Set: N:\CRF3\07192002\I674962A.raw

```
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:35 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:41 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:48 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:49 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!
L:50 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:57 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:58 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!
L:59 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:64 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:65 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!
L:66 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:71 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:72 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!
L:73 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:78 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:147 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
```